

DISCIPLINE: Confidentiality & Integrity

Discipline Roadmap for: Encryption (Endpoint Encryption)

Current	2 Years	5 Years	
Baseline Environment Desktop/Workstation SafeBoot (McAfee) —————→ Utimaco —————→ Checkpoint (Pointsec) —————→ PGP —————→ Guardian Edge —————→ TrueCrypt (non-managed) —————→	Tactical Deployment	Strategic Direction The evolution of these products towards better centralized management and “suite” based dynamics is important.	
		Shared	Agency ✓
Retirement Targets None	Mainstream Platforms (must be supported) SafeBoot, Utimaco, Checkpoint, PGP, Guardian Edge		
Containment Targets None		Emerging Platforms BitLocker, Managed hardware based encryption	
Implications and Dependencies Whole disk encryption coupled with other endpoint controls form a first line of defense against data leakage/loss in computing devices. External devices (e.g., USB thumbs and HDs) must also be encrypted for compliance requirements in many situations.			
Roadmap Notes ▪ TMP (Trusted Platform Module) needs to be considered for secure hardware based credential storage and specified in devices going forward. ▪ Roadmap was originally entitled <i>Mobile Data</i>			

DISCIPLINE: Host Protection

Discipline Roadmap for: Endpoint Data Encryption

■ Discipline Boundaries:

Endpoint data protection products secure data on devices that are movable and can leave the office, including notebooks, tablet PCs, PDAs and smartphones. Buyers want products that work equivalently across multiple platforms, need minimal support, provide for common policies and use strong encryption.

■ Discipline Standards:

- ❑ Federal Information Processing Standard (FIPS) NIST Publication 140-2
- ❑ Trusted Platform Module (TPM)

■ Migration Considerations:

- ❑ Cost and implementation barriers exist but have been lessened by strategic large lot buys originating from the MS-ISAC working in concert with other organizations

■ Exception Considerations:

■ Miscellaneous Notes:

- ❑ File and partition based encryption can be considered depending on implementation strategy. Open Source options like TrueCrypt as well as closed source options like Credant exist in this arena.

■ Established

- ❑ October 24, 2007

■ Date Last Updated:

- ❑ March 26, 2008

■ Next Review Date:

- ❑ November 2009